

Recovery Plan Action Status

Plan Name: Recovery Plan for *Pleodendron macranthum* and *Eugenia haematocarpa*

Plan Status: Final

Plan Date: 11-Sep-98

Lead Agency: USFWS

Lead Office: Caribbean Ecological Services Field Office

(787)

851-7297)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Uvillo (<i>Eugenia haematocarpa</i>), Chupacallos (<i>Pleodendron macranthum</i>)	1	111	Develop management plans, in cooperation with the USDA Forest Service, for the Caribbean National Forest.	Not Started			Region 4 - Ecological Services, FWS, Division of Ecological Services, US Forest Service	Management: Planning	Internal Administrative, Internal Field Assistance	
Uvillo (<i>Eugenia haematocarpa</i>), Chupacallos (<i>Pleodendron macranthum</i>)	1	121	Monitor known populations.	Not Started			Conservation Organizations, Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Research: Population Surveys	Graduate Student, Internal Field Assistance	
Uvillo (<i>Eugenia haematocarpa</i>), Chupacallos (<i>Pleodendron macranthum</i>)	1	122	Enforce existing Commonwealth and Federal endangered species regulations.	Ongoing Current	FY 1995 - FY 1999	FY 2011	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Division of Law Enforcement, FWS, Division of Ecological Services, US Forest Service	Other: Law Enforcement	Internal Field Assistance	
Uvillo (<i>Eugenia haematocarpa</i>), Chupacallos (<i>Pleodendron macranthum</i>)	2	123	Educate the public on plant conservation values and regulations pertaining to endangered species.	Ongoing Current	FY 1995 - FY 1999	FY 2011	Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Other: Information and Education	Internal Administrative	The first years' cost for production of materials. Species is included in public education programs.

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Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	211	Identify and inventory potential sites.	Not Started			Conservation Organizations, Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Research: Habitat Requirements	Internal Field Assistance, Internal Technical Assistance	
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	212	Assess periodicity of flower production and pollination activity	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Research: Demographic Studies	Contract, Graduate Student	
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	212	Characterize sites to determine their suitability as future recovery sites.	Not Started			Conservation Organizations, Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Research: Habitat Requirements	Contract, Internal Field Assistance	
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	1	213	Obtain protective status for the privately-owned population sites.	Not Started			Puerto Rico Department of Natural and Environmental Resources, Region 4 - Ecological Services, FWS, Division of Ecological Services	Acquisition: Easement	Internal Field Assistance	Cost cannot be determined at present due to the possibility of conservation easements and/or landowner agreements.
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	31	Define habitat requirements.	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Research	Graduate Student, Species Expert	

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Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	323	Assess seed viability.	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Research: Propagation	Graduate Student, Species Expert	
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	324	Evaluate seedling establishment and growth.	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Research: Reintroduction	Graduate Student, Internal Field Assistance	
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	325	Determine genetic structure of the species.	Not Started			Universities, FWS, Division of Ecological Services	Research: Genetics	Contract, Graduate Student	
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	331	Assess feasibility of propagation.	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Research: Propagation	Graduate Student, Species Expert	
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	332	Develop artificial propagation program.	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Management: Propagation	Internal Administrative, Internal Field Assistance	
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	411	Select sites and assess habitat suitability.	Not Started			Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Management	Internal Field Assistance	

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Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	412	Ensure site protection.	Ongoing Current	FY 2006	FY 2011	Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Other: Law Enforcement	Internal Field Assistance	No cost anticipated. DNER rangers enforce regulations.
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	413	Introduce plants.	Planned			Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Management: Reintroduction	Internal Administrative, Internal Field Assistance	Chupacallos material to be planted at El Yunque.
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	51	Determine numbers of individuals and populations necessary to ensure species stability, security and self perpetuation.	Not Started			Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service	Research: Demographic Studies	Internal Field Assistance	
Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum)	2	52	Determine what additional actions, if any, are necessary to achieve recovery criteria.	Not Started			Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services	Research	Internal Field Assistance, Internal Technical Assistance	